

This listing of claims replaces all previous listings:

Listing of Claims:

1. (Canceled)
2. (Currently amended) A method of testing a currency item comprising:  
deriving a plurality of measurements of the currency item at a resolution (R); [[and]]  
processing the measurements to derive values at a different resolution, wherein the  
resolution is reduced in the spectral domain, the method comprising filtering a signal of the  
measured values in the spectral domain to reduce the resolution in the spectral domain by taking  
a subset of the set of spectral components; and  
deriving a feature vector using the subset of spectral components.
3. (Original) A method as claimed in claim 2 wherein the subset is of a predetermined size.
4. (Previously Presented) A method as claimed in claim 2 wherein the spectral domain is the  
frequency spectrum.
5. (Original) A method as claimed in claim 4 wherein the filtering excludes high frequency  
components.
6. (Previously Presented) A method as claimed in claim 2 wherein the signal of the  
measured values is normalized, preferably by a mean value, before filtering.
7. (Canceled)

8. (Currently amended) A method as claimed in claim [[7]] 2 comprising processing the feature vector using a neural network, including a backpropagation network or an LVQ network.
9. (Previously presented) A method as claimed in claim 2 comprising interpolation to increase the resolution in the spatial domain.
10. (Original) A method as claimed in claim 9 wherein measurements are derived at a first resolution R1 in a first spatial direction and at a second resolution R2 in a second spatial direction.
11. (Original) A method as claimed in claim 10 wherein the first and second directions are substantially perpendicular
12. (Previously Presented) A method as claimed in claim 10 wherein  $R1 < R2$ , and wherein the processing increases the resolution in the first direction to approximately R2.
13. (Previously presented) A method as claimed in claim 2 involving a method of reconstituting a sampled signal.
14. (Previously presented) A method as claimed in claim 2 involving summing measured values weighted by a weighting function.
15. (Original) A method as claimed in claim 14 wherein the weighting function is of the form  $\sin(x)/x$ .
16. (Previously presented) A method as claimed in claim 2 including using a weighting window to compensate for edge effects.
17. (Original) A method as claimed in claim 16 wherein the weighting window is a raised cosine window such as a Hamming or Hanning or Kaiser-Bessel window.

18. (Previously Presented) A method as claimed in claim 9 comprising removing the mean of the measured values before interpolation and reinstating it after interpolation.
19. (Previously presented) A method as claimed in claim 2 wherein the measured values are derived along a line substantially parallel to one edge of the document.
20. (Previously presented) A method as claimed in claim 2 for validating a currency item.
21. (Previously presented) A method as claimed in claim 2 for denominating a currency item.
22. (Previously presented) A method as claimed in claim 2 for testing a document, banknote or other value sheet.
23. (Previously presented) A method as claimed in claim 2 for testing a coin.
24. (Previously presented) A currency tester adapted to perform a method as claimed in claim 2.
25. (Original) A currency tester as claimed in claim 24 comprising means for sensing a currency item at resolution R.
26. (Original) A currency tester as claimed in claim 25 comprising means for sensing a currency item at resolution R1 extending in a first direction and means for sensing a currency item at a resolution R2 in a second direction.
27. (Original) A currency tester as claimed in claim 25 comprising a linear sensor array of resolution R1 and means for moving the currency item relative to the sensor array at a resolution R2.

28. (Previously Presented) A currency tester as claimed in claim 24 for denominating and/or validating currency items.
29. (Previously Presented) A currency tester as claimed in claim 24 for testing a coin.
30. (Previously Presented) A currency tester as claimed in claim 24 for testing a document, banknote or other value sheet.
31. (Original) A currency tester as claimed in claim 30 wherein a document can be fed in the transport path with skew and offset with respect to the edge of the transport path.
32. (Previously Presented) A currency tester as claimed in claim 24 which can process a plurality of currency items of different sizes.
33. (Previously presented) A currency tester adapted to perform a method as claimed in any one of claims 3 through 8.